JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number:

2003107453 A

(43) Date of publication of application: 09.04.2003

(51) Int. CI

G02F 1/1335

G02B 5/02, H01L 21/336,

G02B 5/08, H01L 29/786 G02F 1/1343,

G02F 1/1368,

G09F 9/30,

(21) Application number:

2001294719

(71) Applicant: SEIKO EPSON CORP

(22) Date of filing:

26.09.2001

(72) Inventor:

MURAI ICHIRO

(54) ELECTRO-OPTIC DEVICE AND ITS **MANUFACTURING METHOD**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an electrooptic device which can suitably be used for mobile phones and mobile computers or the like and which has excellent contrast in a transmitting mode display in pixels and also excellent reflecting characteristics, and to provide its manufacturing method.

SOLUTION: The electro-optic device provided with a couple of substrates 10, 20 for sealing and holding and electro-optic substance and placed opposite to each other, a reflection electrode 9 formed to a side of the electro-optic substance of the substrate 10 out of a couple of the substrates 10, 20 and having at prescribed positions one or more transmitting window 14 for reflecting incident light from the other substrate 20 out of a couple of the substrates 10, 20 and transmitting light from a rear side light source, a transparent electrode 8 formed to cover a region corresponding to the transmitting window 14 on the lower layer side of the reflection electrode 9; and an orientation film 12 formed to the upper layer of the reflection electrode 9, is characterized in that an uneven layer 7 having uneven is placed between the substrate 10 and the reflection electrode 9, the reflection electrode 9 has a surface uneven shape to scatter reflected light corresponding to the unevenness of the uneven layer 7, and the uneven layer 7 is extended up to a region corresponding to the transmitting window 14.

COPYRIGHT: (C)2003,JPO

